

Datasheet

LuxaLight COB LED strip Warm White 2700K + White 6200K Tunable Color Temperature Protected (24 Volt, 576 LEDs, COB, IP64)

LS24CT576COBPLX

Version: 2025-03-10.1

Product description

The LuxaLight Professional Tunable Color Temperature COB LED Strip is a versatile lighting solution, ideal for use in various indoor environments. This strip features an IP64 certification with a silicone coating, making it dust and splash water-resistant, which makes it suitable for use in both dry and wet environments. The strip utilizes advanced COB LED technology and offers a variable color temperature range from **2700K to 6200K**, allowing you to adjust the lighting to suit your specific needs and preferences, from warm, cozy lighting to cool, bright lighting.

Key Features:

- **Tunable Color Temperature (2700K – 6200K):** With the ability to adjust the color temperature from warm white (2700K) to cool white (6200K), this LED strip provides flexible lighting for any situation. It is ideal for use in various environments and moods.
- **IP64 Certification and Silicone Coating:** The strip has a robust silicone coating and is IP64 certified, meaning it is protected against dust and splash water. This makes the LED strip suitable for environments where it may be exposed to moisture, such as kitchens, bathrooms, or covered outdoor areas.
- **COB LED Technology:** The strip uses Chip-on-Board (COB) LED technology, which ensures uniform light distribution without visible hotspots, providing consistent and efficient lighting.
- **Use of 3M 4905 VHB Tape:** The strip is equipped with 3M 4905 VHB tape, ensuring a strong and reliable attachment to various surfaces.

Applications:

- **Living and Working Spaces:** The Tunable Color Temperature feature makes this LED strip perfect for living rooms, offices, and meeting rooms, where the lighting can be adjusted according to the activity or mood.
- **Kitchens and Bathrooms:** With the IP64 certification and silicone coating, this LED strip is suitable for use in kitchens and bathrooms, where protection from splash water is required.
- **Retail and Window Displays:** The flexibility of color temperature allows the lighting to be adjusted to enhance product presentation in stores and window displays, creating a dynamic shopping experience.
- **Creative and Artistic Projects:** The adjustable color temperature is ideal for creative and artistic lighting setups, where the lighting can be customized to create the desired ambiance.

Advantages:

- **Flexible Color Temperature:** The ability to adjust the color temperature between 2700K and 6200K offers flexibility for various applications and preferences, from cozy, warm lighting to energetic, cool lighting.
- **IP64 and Silicone Coating:** The IP64 certification and silicone coating provide additional protection against moisture and dust, making the strip suitable for use in various environments.
- **COB LED Technology:** COB LED technology ensures even light distribution without visible hotspots, resulting in an efficient and comfortable lighting experience.
- **Reliable Performance:** The LED strip operates on a standard 24V power supply and offers efficient, stable performance, making it ideal for long-term use in both residential and commercial environments.
- **Durable and Energy-Efficient:** LED technology is energy-efficient, meaning the strip is not only cost-effective but also contributes to a more sustainable lighting solution.
- **Strong Adhesion:** The 3M 4905 VHB tape provides reliable adhesion for easy and durable installation on various surfaces.

Technical specifications

General

Brand	LuxaLight
LEDs / meter	576
LED type	COB
Length per reel	10 m
Length per segment	25 mm
LED strip width	10.00 mm
LED strip thickness	4.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours

Lighting

Color temperature white	6700 K
Color temperature warm white	2800 K
CRI	≥ 95
Luminous Flux	1430 lm
Luminous flux white	770 lm
Luminous flux warm white	660 lm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L90B20

Electronics

Working voltage	24V
Current / meter	0.63 A / meter
Power consumption per meter	15.00 W / meter
PCB material	Copper

Environmental

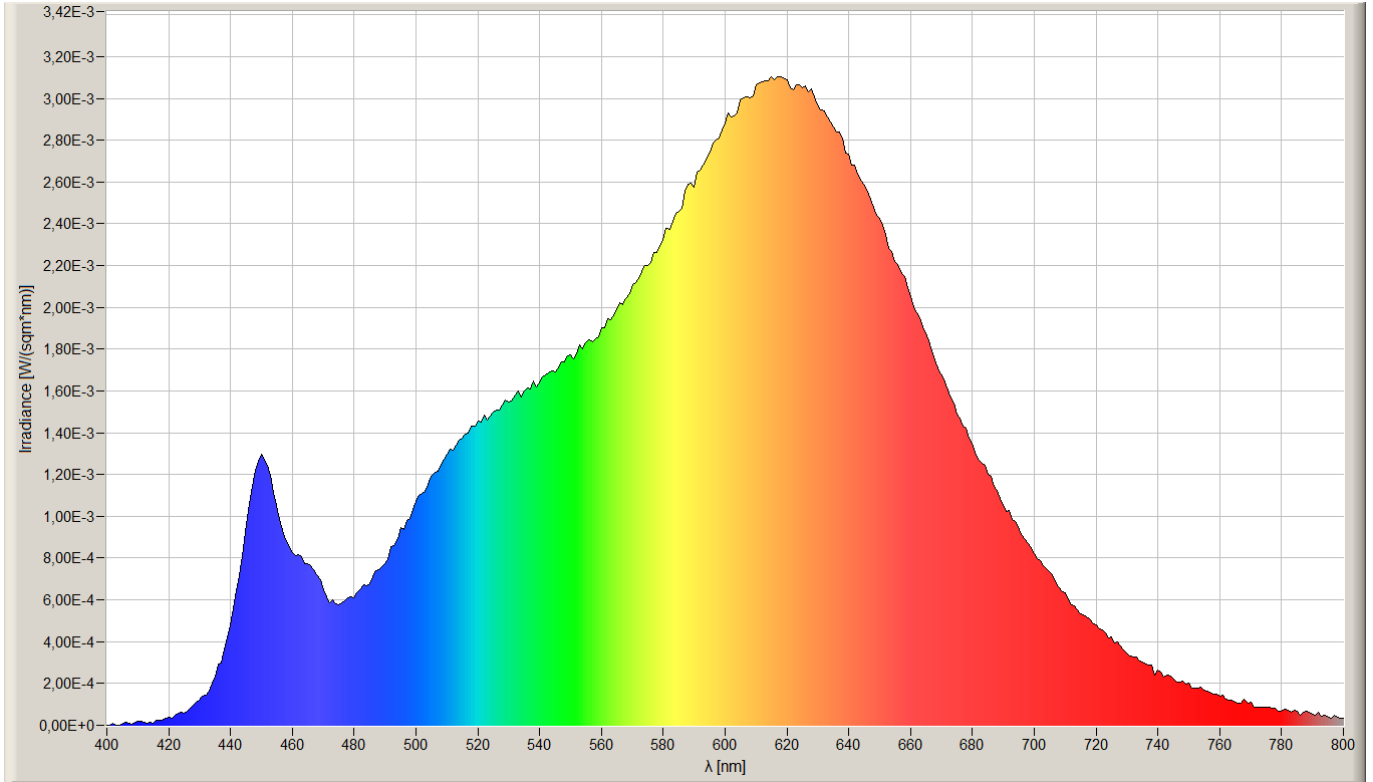
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

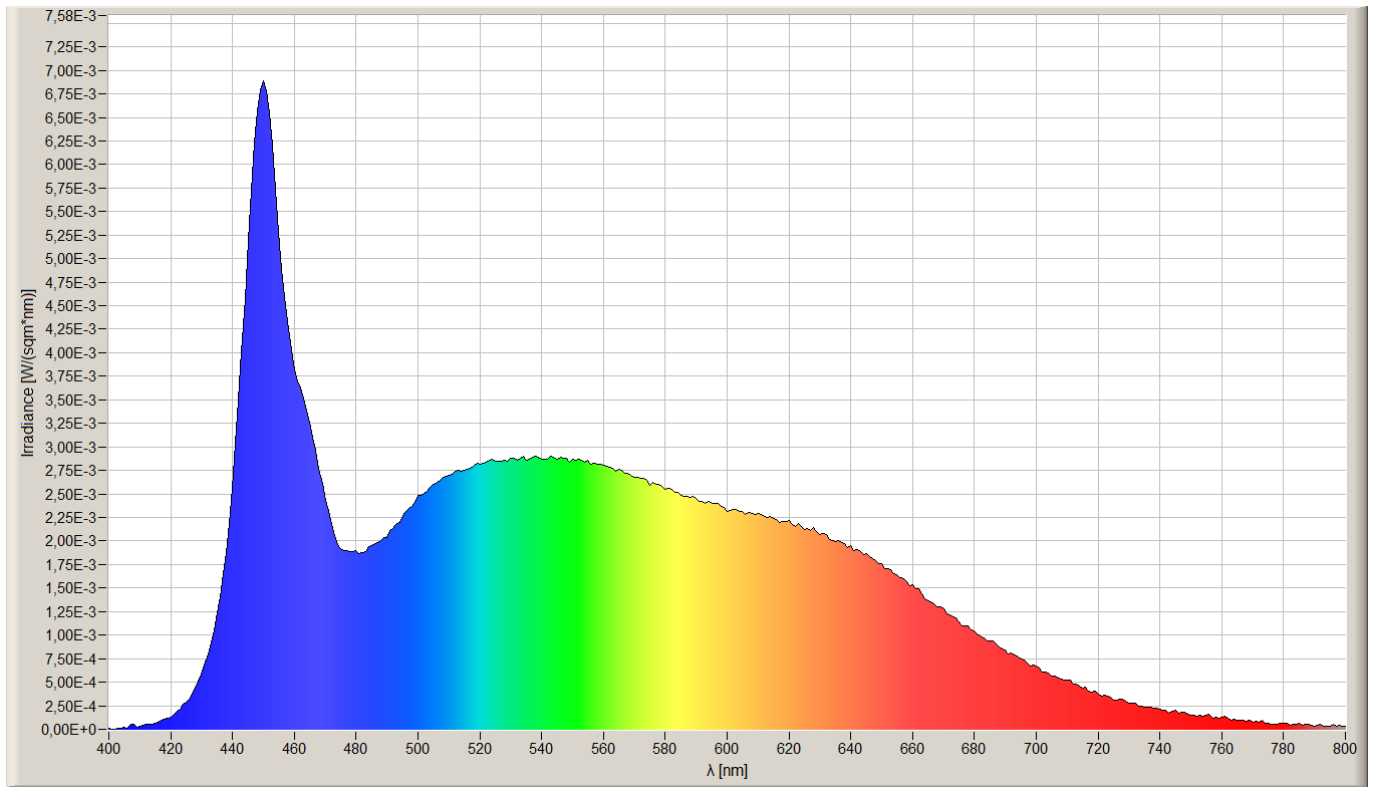
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

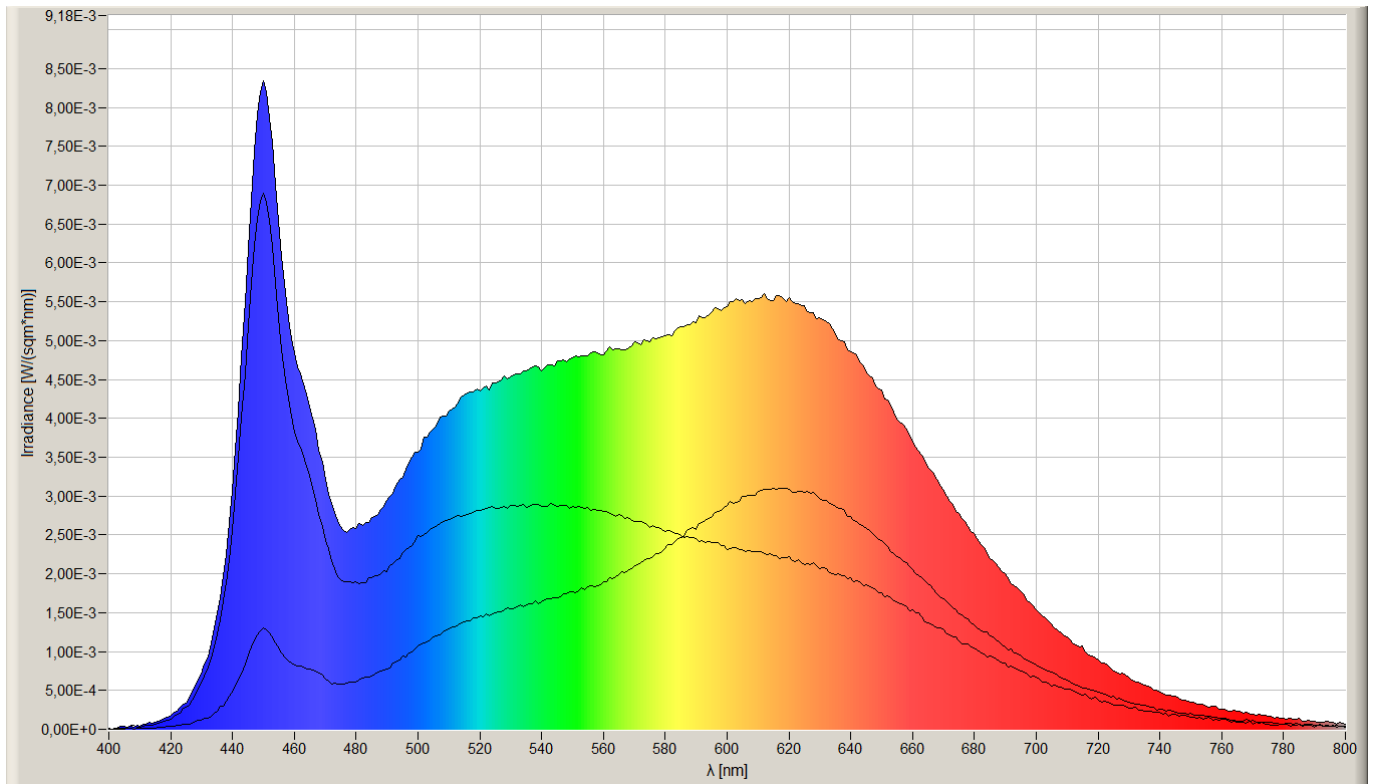
Wavelength Warm White



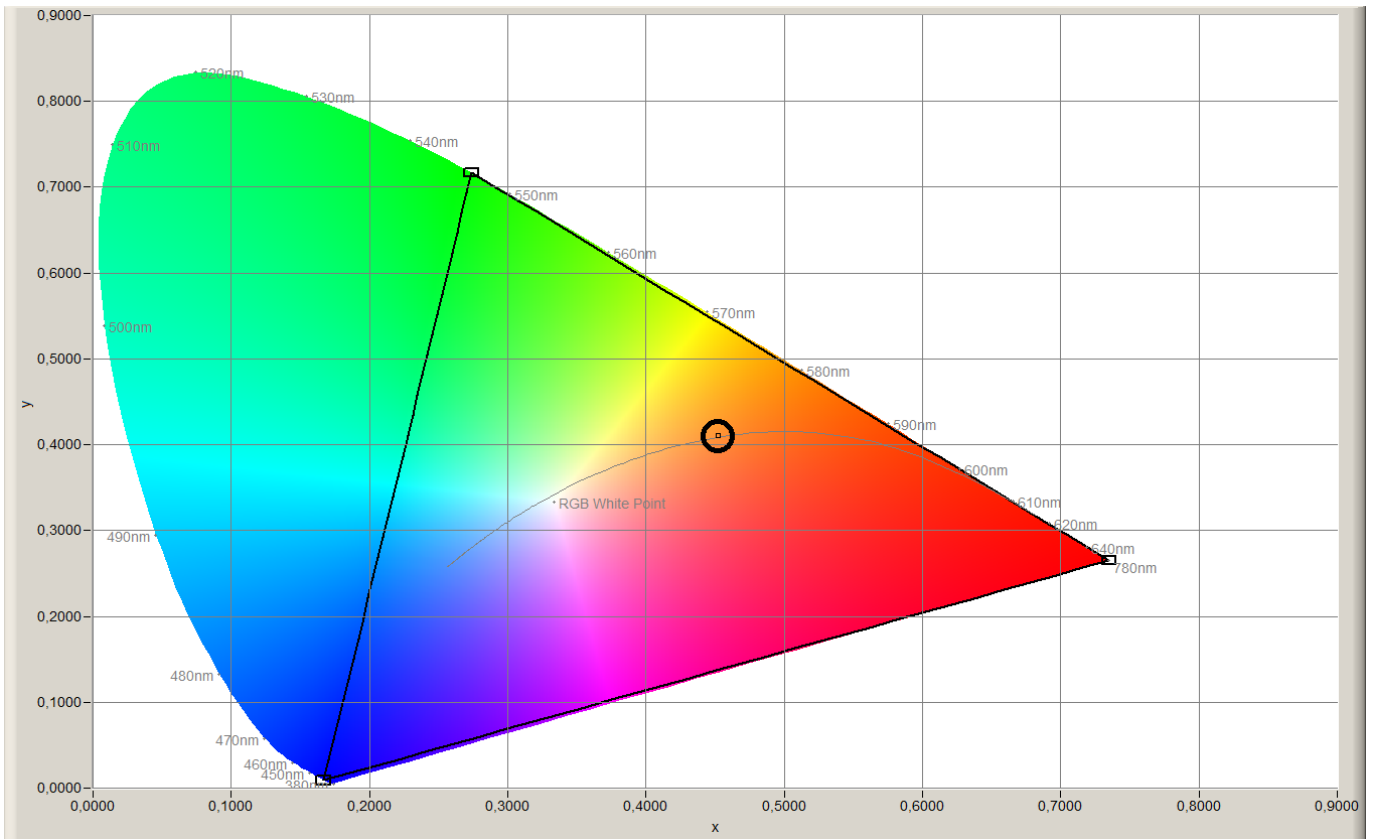
Wavelength White



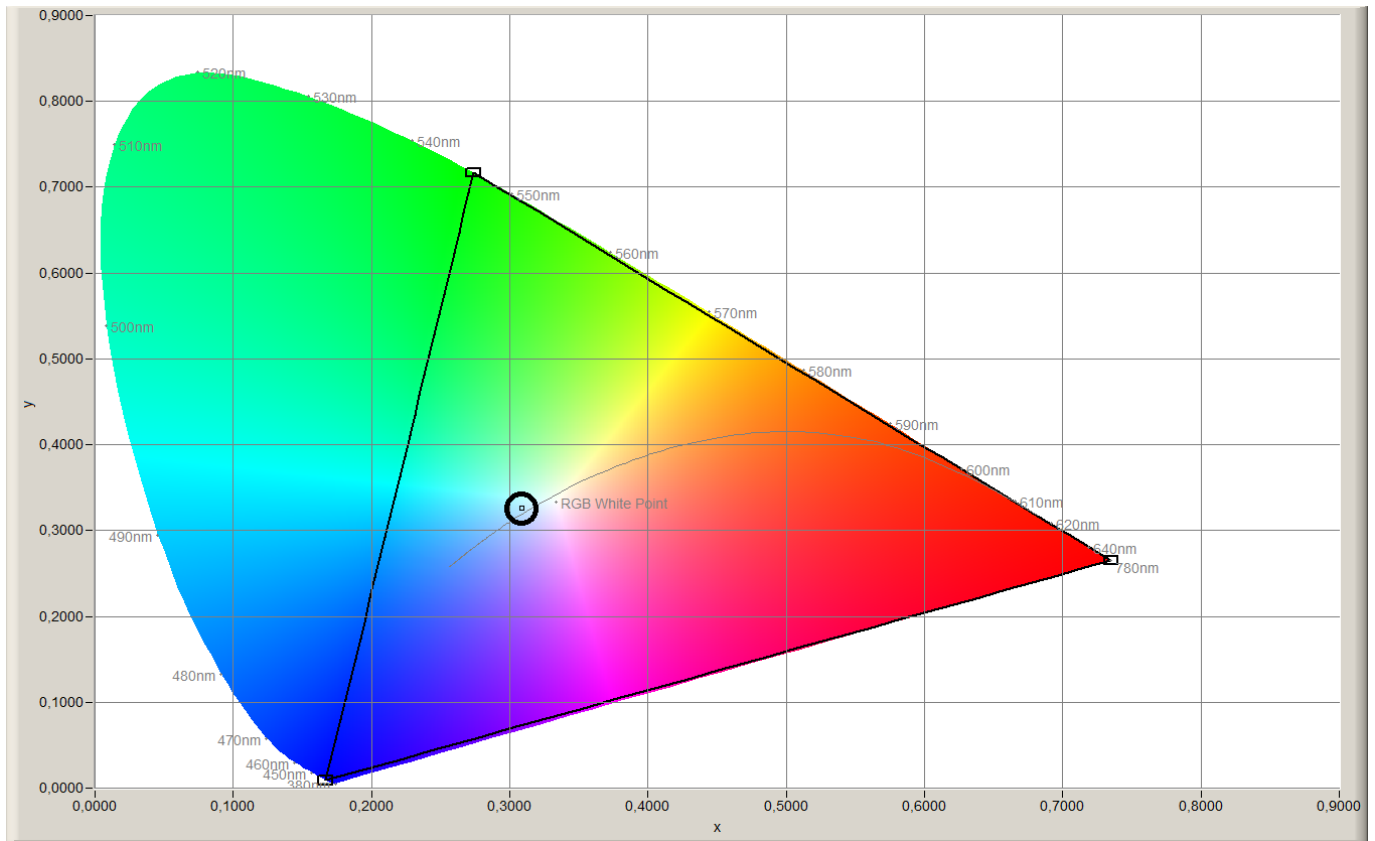
Wavelength Warm White / White



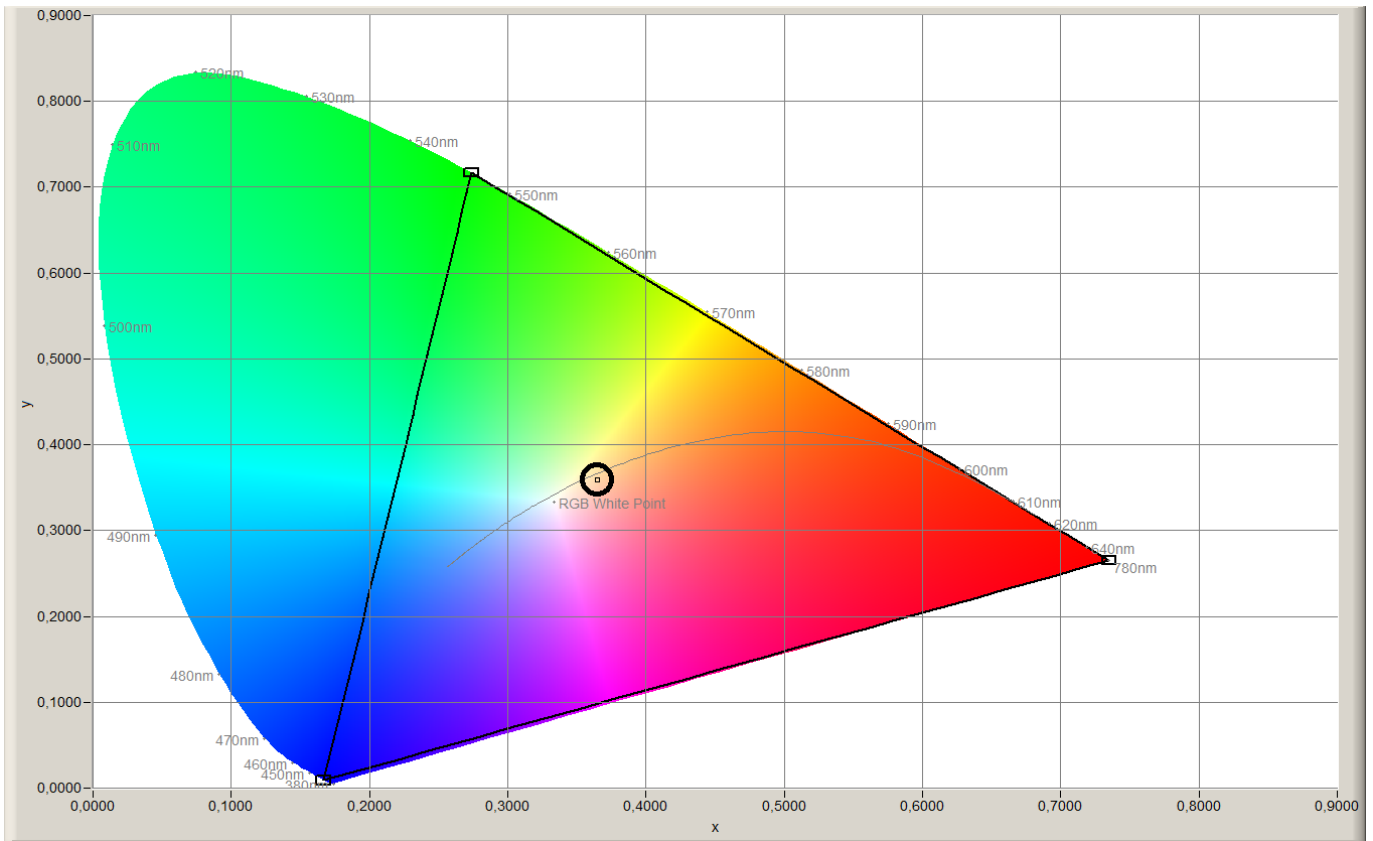
CIE Warm White



CIE White



CIE Total



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